



Accelerate Diagnostic Insight with AI-Powered Report Analysis on AWS

Why Automate Medical Report Review?

Today, every scan or lab report a Trip4Cure patient uploads is routed to a paid specialist for manual review — a valuable but time-intensive process that treats every case, routine or complex, exactly the same way. That leaves no faster, lower-cost path for patients who want quick, preliminary insight, and it keeps specialists occupied with cases an automated first pass could triage.

An AI-driven analysis workflow — running in parallel to the existing specialist-review path — gives Trip4Cure a way to serve routine cases faster and at lower cost, while preserving the paid specialist review as a premium upsell.



Benefits

- » **Faster Turnaround —**
A structured, plain-language diagnostic report from an uploaded MRI, X-ray or lab document in near real time, instead of the hours-to-days a manual review takes.
- » **Lower-Cost Entry Point —**
Patients access an AI-generated report at a lower price point, with a built-in upsell path to a paid specialist second opinion.
- » **Predictable AI Cost —**
Model orchestration routes each case to the right model by complexity, with a cost dashboard and guardrails keeping spend on target.
- » **HIPAA-Aligned Security —**
Encrypted, time-limited storage and payment-gated release protect every file from upload through to report delivery.

A proven, modular path to AI-powered diagnostics

Shri Sai Tech builds each capability as an independent, reusable API module rather than a single monolithic system — so Trip4Cure can adopt modules individually and extend them over time. Each module is built and validated in a controlled AWS environment, then migrated to Trip4Cure's own staging environment with client-managed keys.

Foundation models on Amazon Bedrock — Amazon Nova Pro and Anthropic Claude Sonnet 4.5 — handle image-based and complex-case analysis, while the lightweight Amazon Nova Lite model handles simpler cases, with an orchestration layer balancing quality and spend automatically.

Comprehensive AI Capabilities for Trip4Cure's Platform

- **AI MRI Scan Analysis –**
AI analysis of uploaded MRI scans using Amazon Nova Pro, returned as a structured diagnostic report.
- **AI X-ray Scan Analysis –**
AI analysis of X-ray images through the same Bedrock-based pipeline, returned as a structured report.
- **AI Lab Report Analysis –**
Text extraction without third-party OCR, AI-flagged findings, and comparison against the patient's prior results.
- **HIPAA-Compliant Secure Upload –**
Encrypted upload and storage, with time-limited, authorised-only access and automatic expiry.

Resources

»» AWS Services Powering the Solution

- **Amazon Bedrock:** <https://aws.amazon.com/bedrock/>
- **Anthropic Claude on Amazon Bedrock:**
<https://aws.amazon.com/bedrock/claude/>
- **Amazon Titan Embeddings:** <https://aws.amazon.com/bedrock/titan/>
- **Amazon S3:** <https://aws.amazon.com/s3/>
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»» Trip4Cure AI Medical Report Analysis POC

AI-powered MRI, X-ray and lab report analysis with HIPAA-aligned secure upload, delivered as reusable APIs on AWS and ready to plug into Trip4Cure's existing platform.

Foundation models: Amazon Nova Lite (amazon.nova-lite-v1:0), Amazon Nova Pro (us.amazon.nova-pro-v1:0), Anthropic Claude Sonnet 4.5 (us.anthropic.claude-sonnet-4-5-20250929-v1:0) and Amazon Titan Text Embeddings V2 (amazon.titan-embed-text-v2:0).

<https://trip4cure.com/>



AWS Partner Promotion

Shri Sai Tech's AI-Powered Medical Report Analysis Solution on AWS helps medical and wellness tourism platforms automate first-pass diagnostic review, serve routine cases faster, and keep AI spend predictable — all on a secure, scalable AWS cloud platform.

Built on Amazon Bedrock foundation models — Amazon Nova Lite, Amazon Nova Pro, Anthropic Claude Sonnet 4.5, and Amazon Titan Text Embeddings V2 — the solution analyses MRI scans, X-ray images and lab reports, and returns a configurable, disclaimer-carrying report as PDF and HTML.

An orchestration layer routes each case to the right model by complexity, with automatic fallback if a provider is unavailable and per-module spend tracked on a cost dashboard — keeping quality and cost in balance as volume grows.

Patients gain near real-time reports at a lower price point with an upsell into paid specialist review, while Trip4Cure gains encrypted, time-limited storage, payment-gated release, and reusable APIs handed over with source code via GitHub.

Call to Action

